

# Owner's Operating Service Instruction Manual

10¢

Model Nos.

114-040A

114-050A

- ASSEMBLY
- OPERATION
- REPAIR PARTS

## 20 & 22" ROTARY MOWERS

### WARRANTY

For one year from date of purchase, MTD Products Inc will replace for the original purchaser, free of charge, F.O.B. factory or authorized service firm, any part or parts found to be defective in material or workmanship. All transportation charges on parts submitted for replacement under this warranty must be paid by the purchaser. This warranty does not include replacement of parts which become inoperative through misuse, excessive use, accident, neglect, improper maintenance or alterations by unauthorized persons. This warranty does not include the engine, motor, battery, battery charger or any component parts thereof. For service on these units, refer to the applicable manufacturer's warranty.

The above warranty will apply only to the original owner and will be effective only if the warranty card has been properly processed. It will not apply where the unit has been used commercially.

Warranty service is available through your local authorized service dealer or distributor. UNDER NO CIRCUMSTANCES WILL THE RETURN OF A COMPLETE UNIT BE ACCEPTED BY THE FACTORY UNLESS PRIOR WRITTEN PERMISSION HAS BEEN EXTENDED.

**MTD PRODUCTS INC** • 5389 WEST 130th STREET • P. O. BOX 2741 CLEVELAND OHIO 44111

PRINTED IN U.S.A.

FORM NO. 770-4898

# **I M P O R T A N T**

## **SAFE OPERATION PRACTICES FOR WALK-BEHIND MOWERS**

### **TRAINING**

1. Read the Operating and Service Instruction Manual carefully. Be thoroughly familiar with the controls and the proper use of the equipment.
2. Never allow children to operate a power mower.
3. Keep the area of operation clear of all persons, particularly small children and pets.

### **PREPARATION**

1. Thoroughly inspect the area where the equipment is to be used and remove all stones, sticks, wire, bones and other foreign objects.
2. Do not operate equipment when barefoot or wearing open sandals. Always wear substantial footwear.
3. Check the fuel before starting the engine. Do not fill the gasoline tank indoors, when the engine is running, or while the engine is still hot. Wipe off any spilled gasoline before starting the engine.
4. Disengage the self-propelled mechanism or drive clutch on units so equipped before starting the engine (motor).
5. Never attempt to make a wheel adjustment while the engine (motor) is running.
6. Mow only in daylight or in good artificial light.
7. Never operate the equipment in wet grass. Always be sure of your footing; keep a firm hold on the handle and walk, never run.

### **OPERATION**

1. Do not change the engine governor settings or overspeed the engine.
2. Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times.
3. Stop the blade(s) when crossing gravel drive, walks or roads.
4. After striking a foreign object, stop the engine (motor), remove the wire from spark plug, thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower.

5. If the equipment should start to vibrate abnormally, stop the engine (motor) and check immediately for the cause. Vibration is generally a warning of trouble.
6. Stop the engine (motor) whenever you leave the equipment, before cleaning the mower housing, and when making any repairs or inspections.
7. When cleaning, repairing or inspecting, make certain the blade and all moving parts have stopped. Disconnect the spark plug wire, and keep the wire away from the plug to prevent accidental starting.
8. Do not run the engine indoors.
9. Shut the engine (motor) off and wait until the blade comes to a complete stop before removing the grass catcher or unclogging chute.
10. Mow across the face of slopes, never up-and-down. Exercise extreme caution when changing direction on slopes. Do not mow excessively steep slopes.
11. Always disconnect electric mowers (line operated) before cleaning, repairing or adjusting.
12. Never operate mower without proper guards, plates or other safety protective devices in place.
13. Keep washout ports and other mower-housing service openings closed when mowing.

### **MAINTENANCE AND STORAGE**

1. Check the blade and engine mounting bolts at frequent intervals for proper tightness.
2. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
3. Never store the equipment with gasoline in the tank inside of a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.
4. To reduce fire hazard, keep the engine free of grass, leaves, or excessive grease.
5. Check the grass catcher bag frequently for wear or deterioration. Replace with new bag for safety protection.

## **ASSEMBLY**

Your new mower is shipped preassembled with the exception of the handle.

1. Remove lawn mower and all parts from the carton. Make certain that all loose parts and literature have been removed before the carton is discarded.
2. Extend throttle control assembly which is attached to rear of mower and place on the floor. **CAUTION:** Do not bend or kink control wire.
3. a. Snap lower handle into position on two studs which extend from either side on the rear of the deck in front of the rear wheels.

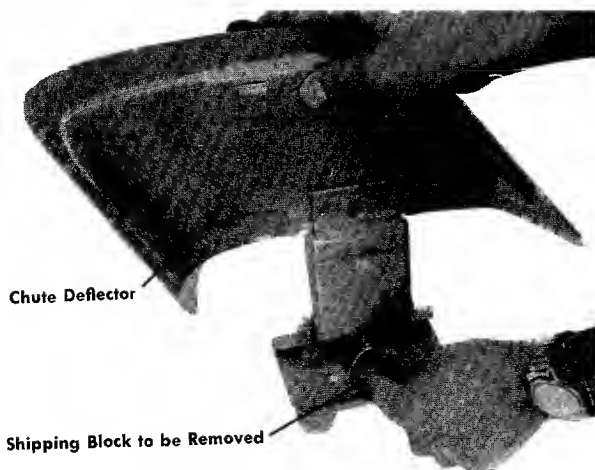
### **NOTE**

It may be necessary to bend the lower handle in. This will insure a tight fit when assembled over weld studs on your unit.

- b. Assemble the two upper handle parts with cap screws and locknuts provided in parts bag. The yellow cap screw should be used to attach throttle control assembly to upper handle. Do not tighten nuts.
  - c. Attach upper handle assembly to lower handle with cap screws and locknuts. Tighten all nuts.
  - d. Secure control wire to lower handle with cable clips.
4. Check ALL nuts and bolts for correct tightness.

### **CAUTION**

Please note that the chute deflector on your mower is in an upright position. It is held in that position by a shipping block. This block is used for shipping purposes only. It must be removed and discarded before your mower is put into operation.



## **OPERATION**

### **NOTE**

For shipping purposes your mower is set with the wheels in a low cutting height position. For best results raise the cutting position until it is determined which height is best for your lawn. See adjustments.

1. Service engine with gas and oil. See Engine Manual packed with lawn mower for complete instructions for the care and maintenance of engine. **Read Directions carefully.**
2. When ready to start engine, place throttle control lever, on handle, in "START" position and start engine in accordance with instructions in Engine Manual. After engine starts, move throttle control lever, on handle, to desired engine speed. The engine is stopped by placing control lever on handle in the "STOP" position.
3. Be sure that lawn is clear of stones, sticks, wire, or other objects which could damage lawn mower or engine. For best results and to insure more even grass distribution, do not mow when lawn is excessively wet.

## **ADJUSTMENTS**

### **CAUTION**

Do not at any time make any adjustment to lawn mower without first stopping engine and disconnecting spark plug wire.

### **EASY CUTTING HEIGHT (OPTIONAL)**

An adjusting plate and thumb lever at each wheel position provides cutting height adjustment. Each adjusting plate has five holes. Height of cut will be changed when the thumb lever is moved from one hole to another. Simply depress thumb lever towards wheel and move wheel and lever assembly to desired position. All wheels must be positioned in relative height of cut positions.

### **STANDARD CUTTING HEIGHT**

Adjustment may be made by removing and moving wheel studs to desired position. Cutting heights will be raised as wheel studs are moved to a lower hole and lowered as wheel studs are moved to a higher hole in the deck. All wheel studs must be mounted in a relative position to the deck.

## **THROTTLE**

If adjustment becomes necessary, the throttle control wire assembly can be reset as follows:

1. Loosen, but do not remove, screw securing throttle control wire assembly at engine.
2. Move throttle control lever on handle to "FAST" position.
3. Move lever, to which control wire is fastened at engine, to full open position and retighten screw to secure throttle control wire assembly.

## **LUBRICATION**

**IMPORTANT:** Always stop engine and disconnect spark plug wire before cleaning, lubricating or doing any kind of work on lawn mower.

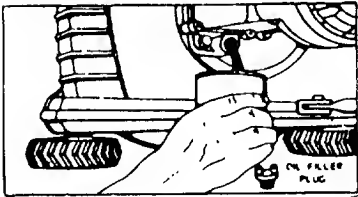
**Wheels** — Wheel bearings are of lifetime Fortiflex. They require no lubrication.

**Optional Ball Bearing Wheels** — Wheel bearings are ball bearings and require lubrication at least once a season with a light oil.

**Throttle** — Periodically lubricate throttle control lever and throttle wire assembly with a few drops of light oil (SAE No. 10 or 20) for ease of operation.

**Protective Shield** — The pivot points on the protective shield should be lubricated periodically with light oil to prevent any rust or binding.

**Chute Deflector** — The torsion spring and pivot point should be lubricated periodically with light oil to prevent any rust or binding. Deflector must work freely.



### **CHANGE OIL (Oil Sump)**

Change oil after 5 hours of operation while engine is warm. Thereafter, change oil every 25 hours of operation while engine is warm.

## **MAINTENANCE**

### **CUTTING BLADE**

The blade may easily be removed for grinding or replacement as follows:

1. Remove bolt and lock washer holding blade and blade adapter to engine crankshaft.
2. Remove blade and blade adapter from engine crankshaft.
3. Remove two bolts, lock washers and nuts holding blade to blade adapter (if necessary).

When sharpening blade, follow the original angle of grind as a guide. It is extremely important that each cutting edge receives an equal amount of grinding to prevent an unbalanced blade. An unbalanced blade will cause excessive vibration when rotating at high speeds and may cause damage to the mower.

Upon reassembly, make certain all parts are assembled properly and tightened securely.

### **NOTE**

Periodically check ALL nuts and bolts for correct tightness to insure safe operation of your unit.

**Deck** — The underside of mower deck should be cleaned after each period of use as grass clippings, leaves, dirt and other matter will accumulate. This accumulation of grass clippings, etc., is undesirable as it will invite rust and corrosion and may cause an uneven discharge of grass clippings at the next cutting.

The deck may be cleaned by tilting the mower forward or on its side and scraping clean with a suitable tool or by washing with a stream of water from a garden hose.

**CAUTION:** Do not direct the stream of water at a hot engine as damage to the engine may result.

**STORAGE** — The following steps should be taken to prepare lawn mower for storage.

1. Clean and lubricate mower thoroughly as described in the preceding instructions.
2. Refer to Engine Manual for correct engine storage instructions.
3. Coat mower's cutting blade with chassis grease to prevent rusting.
4. Place blocks under deck to raise tires clear of floor.
5. Store mower in a dry, clean area.

### **USING YOUR ROTARY MOWER**

For the best results do not cut wet grass because it tends to stick to the underside of the mower, thus preventing proper discharge of grass clippings. If wet grass must be cut, reduce walking speed to help distribute the clippings more effectively.

New grass should be treated as wet grass, otherwise a normal walking speed is about the right pace for efficient mowing.

The best mowing pattern is one that allows the clippings to discharge towards the uncut part of the lawn. This permits recutting of the clippings to further pulverize them. When cutting high weeds, discharge towards cut portion then recut at right angles to first direction.

Lawn should be cut in the fall as long as there is growth.

**NOTE**

The manufacturer DOES NOT recommend the use of any accessory on this Rotary Mower other than those manufactured by MTD Products Inc.

GRASS CATCHER Model No. 194-003A is available as optional equipment for the mowers shown in this manual.

**WARNING:**

1. The mower should not be operated without the entire grass catcher or chute deflector in place.
2. The mower should not be operated without the protective shield on the rear of the deck in place.

**NOTE:**

Under normal usage bag material is subject to wear and should be checked periodically. Be sure any replacement bag complies with the mower manufacturer's recommendations.

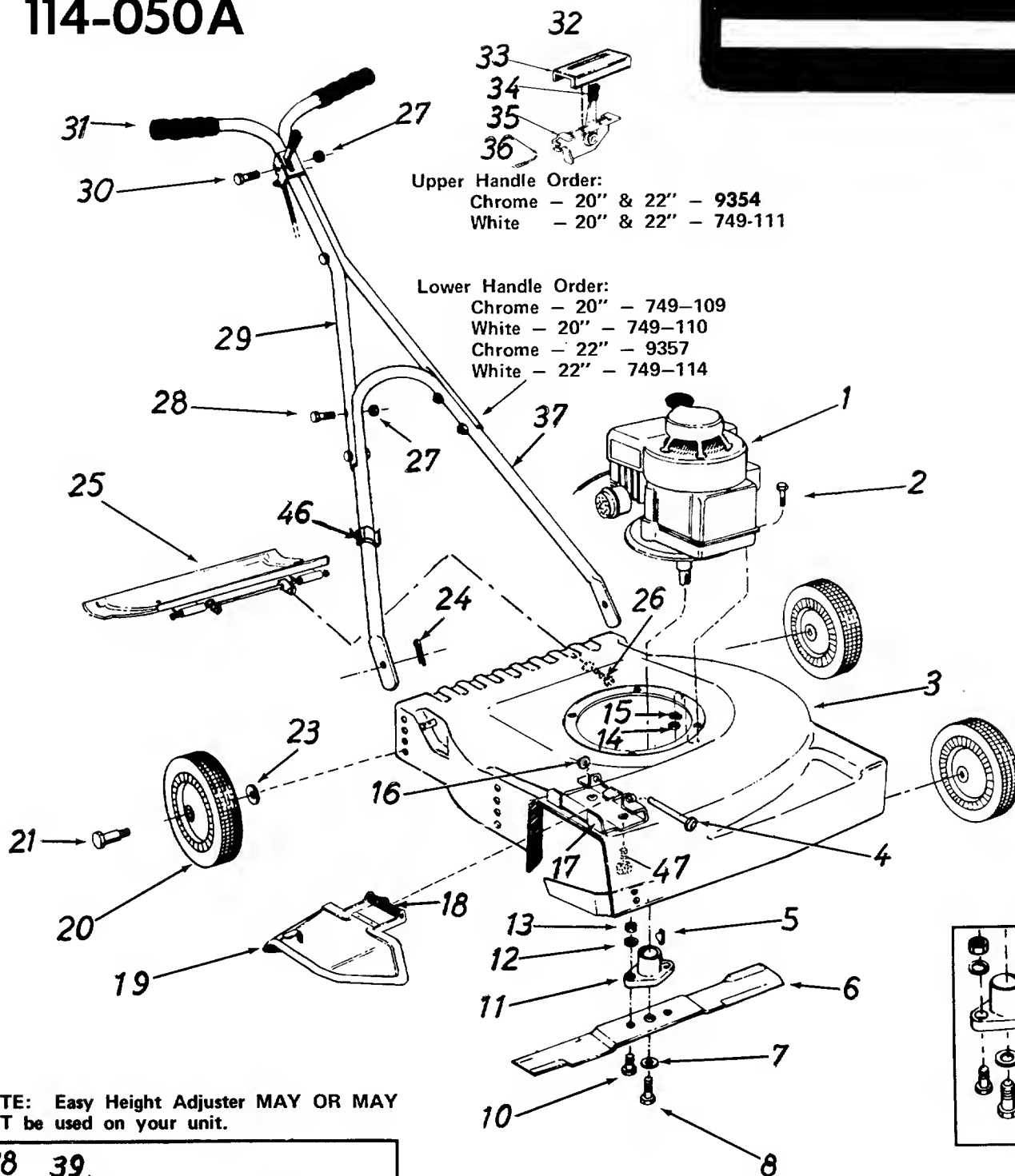
For replacement bags, use only factory authorized replacement bag No. 764-119.

**★ IMPORTANT**

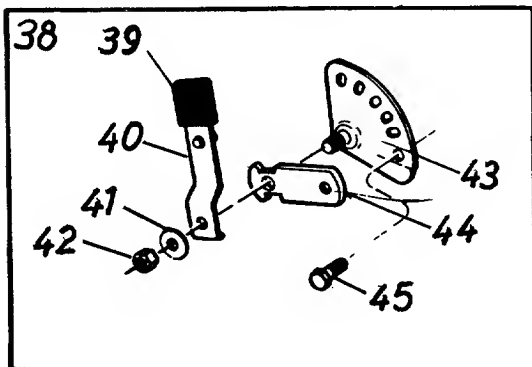
After striking a foreign object, stop the engine (motor), remove wire from spark plug. Thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower.

# 114-040A 114-050A

IF YOU WRITE TO US ABOUT THIS ARTICLE  
OR IF YOU ORDER REPLACEMENT PARTS AL-  
WAYS MENTION THIS MODEL & SERIAL NO  
MODEL



NOTE: Easy Height Adjuster MAY OR MAY NOT be used on your unit.



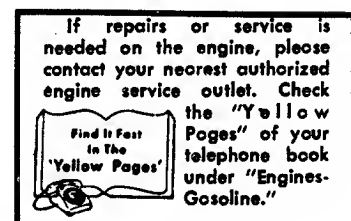
**PARTS LIST FOR MODELS 114-040A AND 114-050A**

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	—	—	Engine	
2	710-158	—	Hex Hd. Cop Scr. 5/16-24 x 1¼" Lg.*	
3	11419—474	—	Deck Assembly—Complete (114-040A)	
	11420—474	—	Deck Assembly—Complete (114-050A)	
4	711-555	—	Pivot Pin	
5	714-365	—	#6 Hi-Pro-Key 5/32 x ⅝" Dia.	
6	742-123	—	Blode 20 inch (114-040A)	
	742-125	—	Blode 22 inch (114-050A)	
7	736-217	—	Spring Lockwasher ⅜" Scr. Heavy Duty	
8	710-459	—	Hex Hd. Cap Scr. ⅜-24 x 1½" Lg.* Heat Treated	
9	10769	—	Blade Adopter Kit	
10	710-117	—	Hex Hd. Cap Scr. 5/16-24 x 1" Lg. Heat Treated	
11	10769	—	Blade Adopter Kit	
12	736-119	—	Spring Lockwasher 5/16" Scr.*	
13	712-123	—	Hex Nut 5/16-24 Thd.*	
14	712-123	—	Hex Nut 5/16-24 Thd.*	
15	736-119	—	Spring Lockwasher 5/16" Scr.*	
16	726-106	—	Push-on Flange Palnut	
17	11130—474	—	Adapter Plate	
18	723-253	—	Torsion Spring	
19	11146—474	—	Chute Deflector Assembly	
20	9392-504	—	Wheel Assembly—Complete (114-040A)	
	9392-505	—	Wheel Assembly—Complete (114-050A)	
21	738-213	—	Axle Bolt	
	738-102	—	Axle Bolt (Use if your unit has Easy Height Adjusters)†	
22	7006	—	Fortiflex Bearing	
23	736-105	—	Belleville Washer	
24	714-104	—	Hoir Pin Cotter*	
25	11191—474	—	Protective Shield Assembly—Comp. (114-040A)	
	11197—474	—	Protective Shield Assembly—Comp. (114-050A)	
26	710-567	—	Hex Hd. Cop Scr. ¼-28 x .62" Lg.	
27	712-107	—	Hex Center Locknut ¼-20 Thd.	
28	710-606	—	Hex Hd. Scr. ¼-20 x 1.50" Lg.*	
29	749-111	—	Upper Handle (2-Required)	
30	710-606	—	Hex Hd. Cap Scr. ¼-20 x 1½" Lg.*	
31	720-157	—	Grip	
32	11609	—	Throttle Control Assembly—Complete	
33	731-180	—	Throttle Control—Cover	
34	7470	—	Throttle Control—Knob	
35	11598	—	Throttle Control—Assembly	
36	746-229	—	Conduit and Wire	
37	749-110	—	Lower Handle (114-040A)	
	749-114	—	Lower Handle (114-050A)	
38	10951	—	Height Adjuster Assembly Complete—R.H. (Optional)	
	10950	—	Height Adjuster Assembly Complete—L.H. (Optional)	
39	7520	—	Grip†	
40	10949	—	Spring Lever Assembly with Knob†	
41	736-219	—	Spring Washer†	
42	712-116	—	Elastic Locknut ⅜-24 Thd.†	
43	10934	—	Index Plate Assembly—R.H.†	
	10935	—	Index Plate Assembly—L.H.†	
44	10937	—	Pivot Bolt	
45	710-209	—	Sems Hex Hd. Cop Scr. ⅜-16 x ⅝" Lg.*†	
46	746-128	—	Cable Clip	
47	710-289	—	Hex Scr. ¼-20 x .50" Lg.*	
	11680—474	—	Chute Deflector Assembly—Complete (Includes Ref. Nos. 16, 17, 18, 19, 4)	

†Optional Handle and Throttle Control.

\*For faster service, obtain standard nuts, bolts, and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

474—Citrus — When ordering parts if color or finish is important, use the appropriate color code shown at left. (e.g. Citrus Finish—11419(474)).



# PARTS INFORMATION

**DEFECTIVE OR MISSING PARTS** must be reported to the factory immediately. Such claims must include your model number and date of purchase.

## POWER EQUIPMENT PARTS AND SERVICE

Parts and service for all MTD manufactured power equipment are available through the authorized service firms listed below. All orders should specify the model number of your unit, parts numbers, description of parts and the quantity of each part required.

**A 1 Engine & Mower Co.**  
327 East 9th Street  
Salt Lake City, Utah 84102

**American Electric Ignition Co.**  
124 N. W. 8th Street  
Oklahoma City, Oklahoma 73102

**Auto Electric & Carburetor Co.**  
2525 4th Avenue, S.  
P. O. Box 1948  
Birmingham, Alabama 35233

**Automotive Equipment Service Co.**  
3117 Holmes Street  
Kansas City, Missouri 64109

**Bailey's Rebuild Inc.**  
1325 E. Madison Street  
Seattle Washington 98102

**Bleckie, Inc.**  
7900 Lorain Avenue  
Cleveland, Ohio 44102

**Brown Equipment Distributor Inc.**  
110 Beech Street  
Corydon, Indiana 47112

**Bullard Supply**  
2409 Commerce Street  
Houston, Texas 77003

**Carl A. Anderson Co.**  
623 S. 16th Street  
Omaha, Nebraska 68102

**Catto & Putty, Inc.**  
P. O. Box 2408  
510 Soledad Street  
San Antonio, Texas 78205

**Center Supply Company**  
6867 New Hampshire Avenue  
Takoma Park, Maryland 20012

**Dixie Sales Company**  
P. O. Box 1408  
327 Battleground Avenue  
Greensboro, North Carolina 27402

**East Point Cycle & Key Shop**  
1617 Whiteway  
East Point, Georgia 30044

**Gamble Distributors**  
West End Avenue  
Carlhage, New York 13619

**Garden Equipment Co., Inc.**  
6600 Cherry Avenue  
Long Beach, California 90805

**Gardenville Supply, Inc.**  
Pipersville, Pennsylvania 18947

**Henry W. O'Neil & Assoc., Inc.**  
410 North Goodman Street  
Rochester, New York 14609

**Henzler, Inc.**  
2015 Lemay Ferry Road  
St. Louis, Missouri 63125

**Kenton Supply**  
8216 North Denver Avenue  
Portland, Oregon 97217

**Kimber's Inc.**  
115 W. Geddes St.  
Syracuse, New York 13204

**The Lawnmower Shop**  
1340 El Camino Real  
San Carlos, California 94070

**Marr Brothers**  
423 E. Jefferson  
Dallas, Texas 75203

**Mathews Auto Electric Co.**  
420 East 2nd Street  
Tulsa Oklahoma 74120

**McClure Lawn & Garden Supply**  
1114 Lexington Avenue  
Mansfield, Ohio 44907

**Memphis Cycle & Supply Co.**  
421 Monroe Avenue  
Memphis Tennessee 38103

**Morton B. Collins Co.**  
300 Birnie Avenue  
Springfield, Massachusetts 01107

**Moz-All of Florida, Inc.**  
365 Greco Avenue  
Coral Gables, Florida 33146

## BRIGGS & STRATTON, TECUMSEH AND PEERLESS PARTS AND SERVICE

Briggs & Stratton, Tecumseh and Peerless parts and service should be handled by your nearest authorized engine service firm. Check the yellow pages of your telephone directory under the listing *Engines — Gasoline*, Briggs & Stratton or Tecumseh Lauson — Power Products.

**National Central, Div. of**  
Joe Sterling, Inc.  
Drawer "D" 687 Seville Rd.  
Wadsworth, Ohio 44281

**Parts & Sales Inc.**  
2101 Industrial Pkwy.  
Elkhart, Indiana 46514

**Power Equipment Distributor**  
36463 So. Gratiot Avenue  
Mt. Clemens, Michigan 48043

**Power Lawn & Garden Equip. Co.**  
2551-2571 J. F. Kennedy Road  
Dubuque, Iowa 52001

**Radco Distributors**  
2403 Market Street  
P. O. Box 3216  
Jacksonville, Florida 32206

**Raub Supply Company**  
James & Mulberry Sts.  
Lancaster, Pennsylvania 17604

**Richmond Battery & Ignition**  
P. O. Box 25369 — 957 Myers St.  
Richmond, Virginia 23260

**Smith Hardware Company**  
515 N. George Street  
Goldsboro, North Carolina 27530

**South Denver Lawn Equip. Co.**  
527 West Evans  
Denver, Colorado 80223

**Suhren Engine**  
8330 Earhart Blvd.  
New Orleans, Louisiana 70118

**Sutton's Lawn Mower Shop**  
Route 4, Box 343  
North Little Rock, Arkansas 72117

**Warner Equipment**  
7520 Lyndale Avenue, So.  
Minneapolis, Minnesota 55423

**Woodson Sales & Service**  
1702 North Sylvania  
Ft. Worth, Texas 76111

## WARRANTY PARTS AND SERVICE POLICY

The purpose of warranty is to protect the customer from defects in workmanship and materials, defects which are NOT detected at the time of manufacture. It does not provide for the unlimited and unrestricted replacement of parts. Use and maintenance are the responsibility of the customer. The manufacturer cannot assume responsibility for conditions over which it has no control. Simply put, if it's the manufacturer's fault, it's the manufacturer's responsibility; if it's the customer's fault, it's the customer's responsibility.

### CLAIMS AGAINST THE MANUFACTURER'S WARRANTY INCLUDES

1. Replacement of Missing Parts on new equipment.
2. Replacement of Defective Parts within the warranty period.
3. Repair of Defects within the warranty period.

All claims MUST be substantiated with the following information:

1. Model Number of unit involved.
2. Date unit was purchased or first put into service.
3. Date of failure.
4. Nature of failure.